

# MINNESOTA MEDICINE

Official Journal of

Duluth Surgical Society, Minneapolis Academy of Medicine, Minneapolis Surgical Society, Minnesota Academy of Medicine, Minnesota Academy of Occupational Medicine and Surgery, Minnesota Obstetric and Gynecological Society, Minnesota Academy of Ophthalmology and Otolaryngology, Minnesota Society of Anesthesiologists, Minnesota Society of Clinical Pathologists, Minnesota Society of Internal Medicine, Minnesota State Medical Association, Minnesota Psychiatric Society, Minnesota Radiological Society, Minnesota Surgical Society, Minnesota Thoracic Society, Northern Minnesota Medical Association, Saint Paul Surgical Society, Southern Minnesota Medical Association

Owned and Published by

THE MINNESOTA STATE MEDICAL ASSOCIATION

BOARD OF EDITORS

CARL O. RICE, M.D., *Editor-in-Chief*

## Consulting Editors

KARL W. ANDERSON, M.D.  
DOUGLAS THANE CODY, M.D.  
JOHN I. COE, M.D.  
CLARENCE DENNIS, M.D., Brooklyn  
DELMAR R. GILLESPIE, M.D.  
PROF. ALFRED GUTGEMANN, M.D., Bonn, Germany

CLAUDE HITCHCOCK, M.D.  
STANLEY O. HOERR, M.D.—Cleveland  
PROF. K. LEGGENHAGER, M.D., Berne, Switzerland  
JOHN LOEWENTHAL, M.D., New South Wales, Australia  
JOHN S. NAJARIAN, M.D.  
WALTMAN WALTERS, M.D.  
OWEN H. WANGENSTEEN, M.D.

## Associate Editors

### Scientific

STANLEY CEPLECHA, M.D.  
ALLAN J. DALE, M.D.  
HARRISON FARLEY, M.D.  
W. J. MARTIN, M.D.  
THEODORE A. PETERSON, M.D.  
FARRELL S. STIEGLER, M.D.  
GEORGE STILWELL, M.D.  
ROBERT L. STROM, M.D.  
JOHN V. THOMAS, M.D.

### Specialties

MILTON ALTER, M.D.—Neurology  
JAMES JANECEK, M.D.—Psychiatry  
REYNOLD A. JENSEN, M.D.—Child Psychiatry  
EINER W. JOHNSON, JR., M.D.—Orthopedic Surgery  
VAN S. LAWRENCE, M.D.—Anesthesia  
CARL MALMQUIST, M.D.—Child Development  
ROBERT MASLANSKY, M.D.—Endocrine  
MICHAEL M. PAPARELLA, M.D.—Otolaryngology  
WILLARD C. PETERSON, JR., M.D.—Dermatology  
KONALD A. PREM, M.D.—OB. GYN.  
RICHARD L. REECE, M.D.—C.P.C.  
ALVIN L. SCHULTZ, M.D.—Grand Rounds  
EDWARD L. SELJESKOG, M.D.—Neurosurgery  
ROBERT W. SOLL, M.D.—Neurology Conference  
SHIH, TSAI, M.D.—Radiology  
WARREN J. WARWICK, M.D.—Pediatrics  
H. H. ZINNEMAN, M.D.—German French Literature

### Editorials

STUART W. ARHELGER, M.D.  
EDWIN BAYRD, M.D.  
REUBEN BERMAN, M.D.

### General Manager

HAROLD W. BRUNN

## Contributing Editors

IRVING M. ARIEL, M.D., Pack Medical Group, New York  
RAYMOND G. ARMSTRONG, M.D., Lackland Air Base, Texas  
LAWRENCE W. DeSANTO, M.D.—Mayo Clinic, Rochester  
C. M. EVARTS, M.D., Cleveland Clinic, Cleveland  
MARVIN L. GLIEDMAN, M.D., Albert Einstein College, Bronx  
HERMANN IMDAHL, M.D., Dortmund, Germany

WARREN L. JONES, M.D., University of S. D., Vermillion  
ROGER D. KEMPERS, M.D., Mayo Clinic, Rochester  
HAROLD KLETCHKA, M.D., Veterans Hospital, Montgomery  
P. LUNDGAARD-HANSEN, M.D., Univ. of Bern, Switzerland  
DONALD C. McILRATH, M.D., Mayo Clinic, Rochester  
RAYMOND C. READ, M.D., Univ. of Arkansas, Little Rock  
MURRAY N. SILVERSTEIN, M.D., Mayo Clinic, Rochester  
H. STIRNEMANN, M.D., Hallau, Switzerland  
ALAN P. THAL, M.D., University of Kansas, Kansas City

## VOLUME 52 INDEX

JANUARY-DECEMBER, 1969

OFFICE OF PUBLICATION

375 Jackson - - - - - Saint Paul, Minnesota

# MINNESOTA MEDICINE

## A

- A Decade of Progress. Loren R. Leslie, 694
- A Lipid Clinic. Preliminary Observations. Stewart L. Nunn, John L. Juergens, Ralph D. Ellefson and Kenneth G. Berge, 1253
- A Practical, Palatable Way of Eating. Ancel Keys, 1259
- Abdominal Aortic Aneurysm Eroding into Duodenum. Pain at Unusual Site and Death from Gastrointestinal Hemorrhage. Earl E. Gambill, 227
- Abu Jamra, Fawzi N.; Erich, John B. and Woolner, Lewis B.: Tumors of the Upper Lip. Benign and Malignant, 915
- Acute Neurological Deterioration Following Lumbar Puncture. Don M. Long, E. L. Seljeskog, Shelley N. Chou and Lyle A. French, 247
- Acute Suppurative Arthritis in Children. Ramon B. Gustilo and Don P. Amren, 219
- Admission Chest Film Program. Fifteen Years' Experience. L. M. Hammar, 1899
- Adson, Martin A.; Cupps, Roger E. and Dockerty, Malcolm B.: Primary Malignant Lymphoma of Small Intestine: Special Emphasis on Results of Treatment, 1865
- Alexander, Carl S. and Brinkman, John H.: Propranolol in Angina Pectoris, 725
- Alexander, James K.: Gross Obesity—The Cardiovascular Consequences, 1289
- Alivirta, P.; Turpeinen, Osmo; Miettinen, Matti; Karvonen, M. J.; Roine, Paavo; Pekkarinen, Maija and Lehtosuo, E. J.: Blood Lipids and Primary Coronary Events—The Effect of Diet Modification, 1247
- Allergic Pulmonary Disease—Criteria for the Diagnosis. Stuart L. Arey, 1469
- Amren, Don P. and Gustilo, Ramon B.: Acute Suppurative Arthritis in Children, 219
- An Unusual "Complication" of A Duodenal Diverticulum — Report of A Case. Jonathan A. van Heerden and James T. Priestley, 583
- Anatomy of the Facial Nerve. George L. Kullmann and D. Thane R. Cody, 213
- Anderson, John W.: Coronary Care in the Very Small Hospital, 1741
- Anderson, V. Elving: Genetic Counseling for Parents—Children with Cystic Fibrosis, Agammaglobulinemia, or Fatal Granulomatous Disease of Childhood, 1570
- Anesthesia after Myocardial Infarction. Sait Tarhan and Emerson A. Moffitt, 1733
- Anterior Spinal Fusion. Paul W. Myers, 391
- Antibiotic Therapy and Hospital-Acquired Infections. Myung-Hi Kim Oh, John M. Matsen, Arnold A. Leonard and Paul G. Quie, 1067
- Antidiuretic Action of Chlorpropamide and Tolbutamide. A. Luethi and H. Studer, 33
- Antolak, Stanley J., Jr.: Infarct of the Prostate Causing Pyohydronephrosis, 591
- Anuria Secondary to Ethylene Glycol Intoxication. Henry T. Smith, Ronald P. Messner and Fred L. Shapiro, 1049
- Appearance of the Iliac Chest Epiphysis—An Indicator of Gonadal Dysfunction. Donald E. Dietrich, 1859
- Arey, Stuart L.: Allergic Pulmonary Disease—Criteria for the Diagnosis, 1469
- Armstrong, Mark L.; Tewksbury, Russell B.; Shaw, Lawrence W. and Freis, Edward D.: Veterans

Multiclinic Trial of Drug Treatment in Hypertension, 1297

- Armstrong, Raymond G.; Stanford, William and Dooley, Byron N.: Artery Shunt for Cyanotic Heart Disease—Intrapericardial Ascending Aorta-Right Pulmonary Artery Anastomosis, 409
- Artery Shunt for Cyanotic Heart Disease—Intrapericardial Ascending Aorta-Right Pulmonary Artery Anastomosis. Byron N. Dooley, Raymond G. Armstrong and William Stanford, 409

## ADDRESS

- Diehl, Harold S.: Opportunity Unlimited. April, 699
- Opportunity Unlimited. Harold S. Diehl. April, 699

## ADVANCES

- Allergic Reactions to Penicillins—Advances in Understanding and Management. A. L. de Weck and C. H. Schneider, 137
- Bourgeois, Louis D. and Washington, John A., II: Sensitivity of Klebsiella, Enterobacter, and Escherichia Coli to Cephalothin, 307
- Candidiasis: Systemic and Disseminated. William J. Martin and Robert E. Van Scoy, 983
- Carcinoma of the Prostate: The Rationale of Therapy. John S. Harding, Roger E. Cupps and David C. Utz, 1941
- Cupps, Roger E.; Utz, David C. and Harding, John S.: Carcinoma of the Prostate: The Rationale of Therapy, 1941
- de Weck, A. L. and Schneider, C. H.: Allergic Reactions to Penicillins. Advances in Understanding and Management, 137
- Doppler Shifted Ultrasound. History and Applications in Clinical Medicine. John L. Morgan, William T. Kemmerer and Michael D. Halber, 503
- Halber, Michael D.; Morgan, John L. and Kemmerer, William T.: Doppler Shifted Ultrasound. History and Applications in Clinical Medicine, 503
- Harding, John S.; Cupps, Roger E. and Utz, David C.: Carcinoma of the Prostate: The Rationale of Therapy, 1941
- Kemmerer, William T.; Halber, Michael D. and Morgan, John L.: Doppler Shifted Ultrasound. History and Applications in Clinical Medicine, 503
- Martin, William J.; Tolman, Dan E.; Waite, Dan E. and Schirger, Alexander: Prophylactic Use of Lincomycin in Oral Surgery, 665
- Martin, William J. and Van Scoy, Robert E.: Candidiasis: Systemic and Disseminated, 983
- Morgan, John L.; Kemmerer, William T. and Halber, Michael D.: Doppler Shifted Ultrasound. History and Applications in Clinical Medicine, 503
- Prophylactic Use of Lincomycin in Oral Surgery. Dan E. Tolman, Dan E. Waite, Alexander Schirger and William J. Martin, 665
- Schirger, Alexander; Martin, William J.; Tolman, Dan E. and Waite, Dan E.: Prophylactic Use of Lincomycin in Oral Surgery, 666
- Schneider, C. H. and de Weck, A. L.: Allergic Reactions to Penicillins. Advances in Understanding and Management, 137
- Sensitivity of Klebsiella, Enterobacter, and Escherichia Coli to Cephalothin. John A. Washington, II and Louis D. Bourgeois, 307

# INDEX

- Tolman, Dan E.; Waite, Dan E.; Schirger, Alexander and Martin, William J.: Prophylactic Use of Lincomycin in Oral Surgery, 665  
 Utz, David C.; Harding, John S. and Cupps, Roger E.: Carcinoma of the Prostate—The Rationale of Therapy, 1941  
 Van Scoy, Robert E. and Martin, William J.: Candidiasis: Systemic and Disseminated, 983  
 Waite, Dan E.; Schirger, Alexander; Martin, William J. and Tolman, Dan E.: Prophylactic Use of Lincomycin in Oral Surgery, 665  
 Washington, John A. and Bourgeois, Louis D.: Sensitivity of *Klebsiella*, *Enterobacter*, and *Escherichia Coli* to Cephalothin, 307

## B

- Bacteria in the Sputum—Pediatric Patients with Chronic Pulmonary Disease. Paul G. Quie, 1545  
 Barrow, J. Gordon and Wilber, Joseph A.: Reducing Elevated Blood Pressure. Experience Found in a Community, 1303  
 Berge, Kenneth G.; Nunn, Stewart L.; Juergens, John L. and Ellefson, Ralph D.: A Lipid Clinic—Preliminary Observations, 1253  
 Berman, David A.; Berman, Reuben; Trajano, Lorenzo F.; Goldfarb, Benjie and Stark, Mary B.: Treatment of Myocardial Infarction in a Coronary Care Unit, 743  
 Berman, Reuben; Trajano, Lorenzo F.; Berman, David A.; Goldfarb, Benjie and Stark, Mary B.: Treatment of Myocardial Infarction in a Coronary Care Unit, 743  
 Bickel, William H.; Stubbins, Sam G. and Shertzer, John H.: Congenital Pseudarthrosis of the Ulna—Report of Two Cases, 1061  
 Bilgutay, Aydin M.; Jensen, Nathan Kenneth; Schmidt, W. Robert; Garamella, Joseph J.; Lynch, Michael F. and Kelly, William D.: Mediastinoscopy, 585  
 Blackburn, Henry: Introduction, 1185  
 Blood Lipids and Primary Coronary Events—The Effect of Diet Modification. Osmo Turpeinen, Matti Miettinen, M. J. Karvonen, Paavo Roine, Maija Pekkarinen, E. J. Lehtosuo and P. Alivirta, 1247  
 Blumenthal, Malcolm N.: Etiology of Allergic Bronchial Asthma, 1407  
 Brinkman, John H. and Alexander, Carl S.: Propranolol in Angina Pectoris, 725  
 Bucher, U. and Kummer, H.: Ferrokinetics in Polycythemia and Iron Deficiency Anemia, 47  
 Buckley, Robert E.: Three Basic Brain Models of the Last Three Centuries, 235

## C

- Cardiac Complications of Chronic Pulmonary Disease in Childhood. Russell V. Lucas, Jr., 1537  
 Cardiac Metabolism in Experimental Hemorrhagic Shock. F. Lundsgaard-Hansen; C. Mayer, H. Riedwyl and G. Zierott, 23  
 Cardiology—The Challenge of Prevention. Paul Dudley White, 1187  
 Cardiology—The Essentiality of Prevention. Ancel Keys, 1191  
 Cardiovascular Risk Associated with Different Levels and Types of Elevated Blood Pressure. Albert Oberman, William R. Harlan, Margaret Smith and Ashton Graybiel, 1283

- Castelli, William P.; McNamara, Patricia M. and Kannel, William B.: Serum Lipid Fractions and Risk of Coronary Heart Disease—the Framingham Study, 1225  
 Central European Encephalitis ("Tick-Borne Encephalitis") in Switzerland. Discussion of Nine Known Cases. H. Spiess and M. Mumenthaler, 41  
 Chambers, George H. and Preator, Richard F.: Subtalar Inflammatory Response to Stress—A Cause of Foot Pain, 417  
 Chambers, George H. and Payne, John F.: Treatment of Dog-Bite Wounds, 427  
 Changes of Diet and Risk Factors in the National Diet-Heart Study. E. S. Fletcher, 1243  
 Chernick, V.: Hyaline Membrane Disease—Danger of a Rational Approach to Therapy, 1381  
 Chernick, V.: The Pulmonary Function Laboratory—Role in the Evaluation of Pulmonary Disease in Children, 1445  
 Chou, Shelley N.; French, Lyle A.; Long, Don M. and Seljeskog, E. L.: Acute Neurological Deterioration Following Lumbar Puncture, 247  
 Christakis, George: Obesity and Nutrition Education—Community Approach to Prevention of Coronary Heart Disease, 1279  
 Chronic Lung Disease—Clinical Evaluation of the Child. William W. Waring and Judith A. Harris, 1435  
 Chronic Respiratory Diseases in Children. Edwin L. Kendig, Jr., 1363  
 Cigarette Smoking—The Associated Cardiovascular Risk. Joseph T. Doyle, 1311  
 Cigarette Smoking and Chronic Respiratory Disease. Norman G. G. Hepper, 1373  
 Cody, D. Thane R. and Kullmann, George L.: The Anatomy of the Facial Nerve, 213  
 Colman, Charles A., Jr. and Dudley, Guilford M., III: Radioisotope Dilution Assay for Vitamin B<sub>12</sub>—Experiences, 413  
 Congenital Cardiac Disease—Causal Factor in Pediatric Pulmonary Disease. Russell V. Lucas, Jr., 1415  
 Congenital Pseudarthrosis of the Ulna—Report of Two Cases. John H. Shertzer, William H. Bickel and Sam G. Stubbins, 1061  
 Connolly, Joseph P.; Malerich, J. A., Jr. and Wegleitner, Mark J.: General Practice, 365  
 Coronary Care in the Very Small Hospital. John W. Anderson, 1741  
 Corrosive Esophagitis. Arvid F. Johnsen and Arndt J. Duvall, III, 909  
 Cottier, H. and Wagner, H. P.: In-Vivo Studies of Cellular Proliferation—The Use of Mitotic Figures, 63  
 Cupps, Roger E.; Dockerty, Malcolm B. and Adson, Martin A.: Primary Malignant Lymphoma of Small Intestine: Special Emphasis on Results of Treatment, 1865  
 Cystic Fibrosis—A New Challenge to Internal Medicine. Richard E. Pogue and Warren J. Warwick, 1551  
 Cystic Fibrosis—Current Theories Concerning the Pathogenesis. Alexander Spock, 1429  
 Cystic Fibrosis—Pathogenesis of the Pulmonary Lesion. Gordon E. Gibbs, 1433  
 Cystic Fibrosis—Surgical Treatment of Pulmonary Complications. Douglas S. Holsclaw and Harry Shwachman, 1547

# CASE REPORTS

- Black Leadership—Potential Psychological Crisis. William W. Brauer, 993
- Brauer, William W.: Black Leadership—Potential Psychological Crisis, 993
- Cholecystocolonic Fistula. James H. Snider and Edward S. Judd, 1141
- Corrosive Esophagitis. Michael Hennessy, 1661
- Drug Fever Due to Procainamide. Claus A. Pierach, 813
- Hennessy, Michael: Corrosive Esophagitis. Acute Management with a Case Report of Early Surgical Intervention, 1661
- Huber, P. and Joos, F.: Vascular Malformations of the Dura Mater, 157
- Joos, F. and Huber, P.: Vascular Malformations of the Dura Mater, 157
- Judd, Edward S. and Snider, James H.: Cholecystocolonic Fistula, 1141
- Pierach, Claus A.: Drug Fever Due to Procainamide, 813
- Snider, James H. and Judd, Edward S.: Cholecystocolonic Fistula, 1141
- Vascular Malformations of the Dura Mater. P. Huber and F. Joos, 157

# CLINICAL PATH CONFERENCES

- Acute Abdominal Emergency after Gastrectomy. Robert L. Strom and William G. Gamble, 319
- Acute Renal Failure—Hypernephroma in Middle-Aged Woman. Hugh Edmondson, John Crosson and Thomas Mulrooney, 801
- Crosson, John; Mulrooney, Thomas and Edmondson, Hugh: Acute Renal Failure—Hypernephroma in Middle-Aged Woman, 801
- Edmondson, Hugh; Crosson, John and Mulrooney, Thomas: Acute Renal Failure—Hypernephroma in Middle-Aged Woman, 801
- Gamble, William G. and Strom, Robert L.: Acute Abdominal Emergency after Gastrectomy, 319
- Granulomatosis in Infancy and Childhood. Edgar O. Ledbetter and Richard W. Ransom, 509
- Ledbetter, Edgar O. and Ransom, Richard W.: Granulomatosis in Infancy and Childhood, 509
- Mulrooney, Thomas; Edmondson, Hugh and Crosson, John: Acute Renal Failure—Hypernephroma in Middle-Aged Woman, 801
- Ransom, Richard W. and Ledbetter, Edgar O.: Granulomatosis in Infancy and Childhood, 509
- Pulmonary Opportunistic Infections after Renal Transplantation. Robert L. Strom, 963
- Strom, Robert L. and Gamble, William G.: Acute Abdominal Emergency after Gastrectomy, 319
- Strom, Robert L.: Pulmonary Opportunistic Infections after Renal Transplantation, 963

# COMPUTER MEDICINE

- Basic Concepts in Computer Science for Laboratory Physicians. Robert Fallat and Robert L. Strom, 847
- Diversified Numeric Applications—On-Line Clinical Laboratory System. Neil I. Fishman and Robert L. Strom, 853
- Fallat, Robert and Strom, Robert L.: Basic Concepts in Computer Science for Laboratory Physicians, 847
- Fishman, Neil I. and Strom, Robert L.: Diversified

Numeric Applications—On-Line Clinical Laboratory System, 853

Strom, Robert L. and Fallat, Robert: Basic Concepts in Computer Science for Laboratory Physicians, 847

Strom, Robert L. and Fishman, Neil I.: Diversified Numeric Applications—On-Line Clinical Laboratory System, 853

# D

- Dawber, Thomas R.: Identification of Excess Cardiovascular Risk, 1217
- Dayton, Seymour and Pearce, Morton Lee: Diet High in Unsaturated Fat—A Controlled Clinical Trial, 1237
- Diet High in Unsaturated Fat—A Controlled Clinical Trial. Seymour Dayton and Morton Lee Pearce, 1237
- Dietrich, Donald E.: The Appearance of the Iliac Crest Epiphysis—An Indicator of Gonadal Dysfunction, 1859
- Dines, David E.; Sessler, Alan D.; Titus, Jack L. and MacDonald, Giles F.: Prolonged Oxygen Therapy and Mechanical Ventilation—Associated Pulmonary Abnormalities, 1745
- Dines, David E. and Skolnick, Judah L.: Tussive Syncope, 1609
- Disc Sensitivities in the Selection of Antibiotics. John M. Matsen, 1499
- Dockerty, Malcolm B.; Adson, Martin A. and Cupps, Roger E.: Primary Malignant Lymphoma of Small Intestine: Special Emphasis on Results of Treatment, 1865
- Doershuk, Carl F. and Matthews, LeRoy W.: Inhalation Therapy for Chronic Obstructive Pulmonary Disease, 1483
- Doershuk, Carl F. and Matthews, LeRoy W.: Management—Comprehensive Treatment of Cystic Fibrosis, 1506
- Dooley, Byron N.; Armstrong, Raymond G. and Stanford, William: Artery Shunt for Cyanotic Heart Disease—Intrapericardial Ascending Aorta—Right Pulmonary Artery Anastomosis, 409
- Doscherholmen, Alfred; Silvis, Stephen; Turkbash, Nejat and Swaim, William R.: Thrombocytosis—A Clinical Evaluation of 322 Patients, 1603
- Doyle, Joseph T.: Cigarette Smoking—The Associated Cardiovascular Risk, 1311
- Dudley, Guilford M. III and Coltman, Charles A. Jr.: Radioisotope Dilution Assay for Vitamin B<sub>12</sub>—Experiences, 413
- Duffy, John and Hansen, JoAnne L.: Psychiatric Aspects of Chronic Lung Disease, 1559
- Dunniho, Dale R.: The Management of Rh ISO Immunization by Amniotic Fluid Analysis, 431
- Duvall, Arndt J., III and Johnsen, Arvid F.: Corrosive Esophagitis, 909
- Duvall, Arndt, J., III and Schlorf, Richard A.: Post-Intubation Granuloma of the Larynx, 717

# DERMATOLOGY

- Cutaneous Biopsy. Willard C. Peterson, Jr. and Milton Orkin, 1667
- Cutaneous Light Sensitivity Due to Fluorescent Lights. Ramon M. Fusaro, 999
- East, William R. and Lumpkin, Lee R.: Systemic Lupus Erythematosus in the Newborn, 477
- False Positive Serology. Willard C. Peterson, Jr., 1935
- Fusaro, Ramon M.: Cutaneous Light Sensitivity Due to Fluorescent Lights, 300



## INDEX

- Laymon, Carl W.: Leukoplakia, 1803  
 Laymon, Carl W.: Radiodermatitis, 833  
 Leukoplakia. Carl W. Laymon, 1803  
 Lumpkin, Lee R. and East, William R.: Systemic Lupus Erythematosus in the Newborn, 477  
 Microflora of the Skin. Willard C. Peterson, Jr., 1139  
 Orkin, Milton and Peterson, Willard C., Jr.: Cutaneous Biopsy, 1667  
 Peterson, Willard C., Jr.: False Positive Serology, 1935  
 Peterson, Willard C., Jr.: Microflora of the Skin, 1139  
 Peterson, Willard C., Jr. and Orkin, Milton: Cutaneous Biopsy, 1667  
 Peterson, Willard C., Jr.: Pityriasis Rosea, 653  
 Peterson, Willard C., Jr.: Self-Induced Eruptions, 103  
 Peterson, Willard C., Jr.: Verruca Vulgaris, 1000  
 Pityriasis Rosea. Willard C. Peterson, Jr., 653  
 Radiodermatitis. Carl W. Laymon, 833  
 Self-Induced Eruptions. Willard C. Peterson, Jr., 103  
 Systemic Lupus Erythematosus in the Newborn. William R. East and Lee R. Lumpkin, 477  
 Verruca Vulgaris. Willard C. Peterson, Jr., 1000

## DIDACTIC

- Differential Diagnosis of Sudden Cerebral Deficit. George C. Flora, 1699  
 Flora, George C.: Differential Diagnosis of Sudden Cerebral Deficit, 1699  
 Flora, George C.: The Neurological Examination, 1777  
 Neurological Examination. George C. Flora, 1777

## E

- Edin, Andrew E.: Protocol for Cope Needle Pleural Biopsy, 1034  
 Edwards, Jesse E.: Treatment of Coronary Disease—Pathologic Limitations, 1587  
 Effects of Physical Activity—Patients and Normal Coronary Prone Subjects. Herman K. Hellerstein, 1335  
 Ehrengruber, H. and Richterich, R.: Electronic Data Processing in the Clinical Laboratory—A Routine System for Clinical Chemistry, 69  
 Electronic Data Processing in the Clinical Laboratory—A Routine System for Clinical Chemistry. R. Richterich and H. Ehrengruber, 69  
 Elevated Blood Sugar—The Associated Cardiovascular Risk. Frederick H. Epstein, 1271  
 Ellefson, Ralph D.; Berge, Kenneth G.; Nunn, Stewart L. and Juergens, John L.: A Lipid Clinic—Preliminary Observations, 1253  
 Epstein, Frederick H.: Elevated Blood Sugar—The Associated Cardiovascular Risk, 1271  
 Erich, John B.; Woolner, Lewis B. and Jamra, Fawzi, N. Abu: Tumors of the Upper Lip—Benign and Malignant, 915  
 Ethchlorvynol (Placidyl) Addiction Hazard. Floyd D. Garetz, 1131  
 Etiology of Allergic Bronchial Asthma. Malcolm N. Blumenthal, 1407  
 Evidence for Excess Risk in Coronary Disease. William B. Kannel and Patricia M. McNamara, 1197

## EDITORIALS

- Adenomammectomy. Philip E. Bernatz, 255  
 Adolescence. James G. Delano, 605  
 Advances in the Management of Hodgkin's Disease. Joseph M. Kiely, 1079  
 Altmeyer, Leo: Observations of a 28-Year-Old-Man with Cystic Fibrosis, 1397  
 Armstrong, Raymond G.: Changes in Vietnam Casualty Management, 449  
 Berman, David A.: Complications of Cardiac Catheterization and Angiography, 1213  
 Berman, David A.: Electronic Pacemakers, 1631  
 Berman, David A.: Embolism, 257  
 Berman, Reuben: Prevention of Coronary Disease, 1207  
 Berman, Reuben: Radiology, 1919  
 Berman, Reuben: Salute to Berne, 79  
 Berman, Reuben: Wilford Hall USAF Hospital, 441  
 Bernatz, Philip E.: Adenomammectomy, 255  
 Cardiac Catheterization in the Management of the Acutely Ill Patient. Eliot Schechter, 443  
 Changes in the Skin with Internal Disease. Aaron B. Lerner, 83  
 Changes in Vietnam Casualty Management. Raymond G. Armstrong, 449  
 Christensen, Norman A.: Dog-Bite Wounds Should be Considered Tetanus Prone, 757  
 Chronic Respiratory Disease in Children. Richard T. Cushing, 1759  
 Chronic Respiratory Program in the Minnesota Crippled Children Services. Mildred A. Norval, 1391  
 Clinical Research at Wilford Hall USAF Hospital. Fred C. Conrad, 451  
 Complications of Cardiac Catheterization and Angiography. David A. Berman, 1213  
 Computers Are Coming, O-ho, O-ho. Richard L. Reece, 751  
 Conrad, Fred C.: Clinical Research at Wilford Hall USAF Hospital, 451  
 Conrad, Fred G.: The United States Air Force Central Tumor Registry, 445  
 Corrective Surgery in Elderly Patients—A Dilemma. Dwight C. McGoon, 1633  
 Course of the Facial Nerve. Morton C. Kane, 929  
 Cushing, Richard T.: Chronic Respiratory Disease in Children, 1759  
 Danielson, Gordon K.: Mitral Valve Reconstruction, 607  
 Davis, Michael W.: Subtalar Inflammatory Response to Stress, 925  
 Delano, James G.: Tremetol Intoxication (Milk Sickness), 605  
 Department of Internal Medicine. F. Wyss; H. G. Pauli and H. Studer, 81  
 Dog-Bite Wounds Should be Considered Tetanus Prone. Norman A. Christensen, 757  
 Early Recognition of Acute Suppurative Arthritis. Gunnar B. Stickler, 1083  
 Eisenstadt, William Sawyer: Significance of Late-Developing Reaction in Allergy Skin Testing, 927  
 Eklund, Carl M.: Tick-Borne Encephalitis, 85  
 Electronic Pacemakers. David Berman, 1631  
 Elusive Treatment of Angina. Marvin S. Segal, 1211  
 Embolism. David A. Berman, 257  
 Farley, Harrison H.: Open Heart Surgery in Elderly Patients, 261

(Continued)

# MINNESOTA MEDICINE

## Editorials (Continued)

- Fifty Years Ago. Hyman S. Lippman, 1075
- Fink, Dan L.; van Herik, Martin and Tsai, S. H.: The First Time, 1911
- First Steps in the Development of a Computer-Based Laboratory Information System. James W. Linman, 1083
- First Time, the. Dan L. Fink; Martin van Herik and S. H. Tsai, 1911
- Food Allergy and Gastrointestinal Allergy. Harry A. Swedlund, 257
- Gedgaudas, E.: Radiology—Responsibilities and Opportunities, 1913
- Haglin, John J. and Sutherland, R. Duncan: Tetanus, 87
- Hartmann, A. F., Jr.: Tremetol Intoxication (Milk Sickness), 605
- Hermans, Paul E.: Hospital-Acquired Infections, 1081
- Herndon, John F.: The National Cystic Fibrosis Research Foundation and Chronic Respiratory Disease in Children and Adolescents, 1389
- Hospital-Acquired Infections, Paul E. Hermans, 1081
- Human Use of Human Machines. Richard L. Reece, 1757
- Hunder, Gene G.: Intrasynovial Corticosteroid Therapy, 603
- Intrasynovial Corticosteroid Therapy. Gene G. Hunder, 603
- Kane, Morton C.: The Course of the Facial Nerve, 929
- Kennedy, Charles C.: Physical Activity and the Cardiac Patient, 1209
- Kieffer, Stephen A.: Subspecialization in Radiology, 1917
- Kiely, Joseph M.: Advances in the Management of Hodgkin's Disease, 1079
- Lerner, Aaron B.: Changes in the Skin with Internal Disease, 83
- Linman, James W.: First Steps in the Development of a Computer-Based Laboratory Information System, 1083
- Linscheid, Ronald L.: Trigger Fingers, 81
- Lippman, Hyman S.: Fifty Years Ago, 1075
- Lowry, Paul T.: Pernicious Anemia, 1753
- Malignant Tumors in Children. Bernard J. Spencer, 1629
- Management of Prostatic Infarcts. C. Richard McKinley, 601
- Stanley R. Maxeiner. George D. McConnell, 615
- McConnell, George D.: Stanley R. Maxeiner, 615
- McGarry, Isabel T.: Public Health Nursing Care of Chronically Ill Children, 1393
- McGoon, Dwight C.: Corrective Surgery in Elderly Patients, A Dilemma, 1633
- McKinley, C. Richard: Management of Prostatic Infarcts, 601
- Mitral Valve Reconstruction. Gordon K. Danielson, 607
- National Cystic Fibrosis Research Foundation and Chronic Respiratory Disease in Children and Adolescents. John F. Herndon, 1389
- Noran, Harold H.: Vertebral Basilar Artery Insufficiency, 261
- Norval, Mildred A.: The Chronic Respiratory Program in the Minnesota Crippled Children Services, 1391
- Observations of a 28-Year-Old Man with Cystic Fibrosis. Leo Altmeyer, 1397
- Open Heart Surgery in Elderly Patients. Harrison H. Farley, 261

- Pauli, H. G.; Studer, H., and Wyss, F.: The Department of Internal Medicine, 81
- Pernicious Anemia. Paul T. Lowry, 1753
- Dr. Harold O. Peterson. Leo G. Rigler, 1926
- Physical Activity and the Cardiac Patient. Charles C. Kennedy, 1209
- Placental Localization. W. Newlon Tauxe, 265
- Post-Intubation Granuloma of the Larynx. Melvin E. Sigel, 1631
- Prevention of Coronary Disease. Reuben Berman, 1207
- Public Health Nursing Care of Chronically Ill Children. Isabel T. McGarry, 1393
- Radiology—Responsibilities and Opportunities. E. Gedgaudas, 1913
- Radiology. Reuben Berman, 1919
- Reece, Richard L.: The Computers Are Coming, O-ho, O-ho, 751
- Reece, Richard L.: The Human Use of Human Machines, 1757
- Renal Clearances. W. Newlon Tauxe, 89
- Rhoton, Albert L., Jr.: Vascular Fistulas of the Dura, 755
- Rigler, Leo G.: Dr. Harold O. Peterson, 1926
- Salute to Berne. Reuben Berman, 79
- Schechter, Eliot: Cardiac Catheterization in the Management of the Acutely Ill Patient, 443
- Segal, Marvin S.: The Elusive Treatment of Angina, 1211
- Sigel, Melvin E.: Post-Intubation Granuloma of the Larynx, 1631
- Significance of Late-Developing Reaction in Allergy Skin Testing. William Sawyer Eisenstadt, 927
- Spencer, Bernard J.: Malignant Tumors in Children, 1629
- Stickler, Gunnar B.: Early Recognition of Acute Suppurative Arthritis, 1083
- Stiegler, Farrell S.: Vascular Compression of the Distal Duodenum, 1079
- Studer, H.; Wyss, F. and Pauli, H. G.: The Department of Internal Medicine, 81
- Subspecialization in Radiology. Stephen A. Kieffer, 1917
- Subtalar Inflammatory Response to Stress. Michael W. Davis, 925
- Sutherland, R. Duncan and Haglin, John J.: Tetanus, 87
- Swedlund, Harry A.: Food Allergy and Gastrointestinal Allergy, 257
- Tauxe, W. Newlon: Placental Localization, 265
- Tauxe, W. Newlon: Renal Clearances, 89
- Tetanus. R. Duncan Sutherland and John J. Haglin, 87
- Thompson, John H., Jr.: "Worms", 753
- Three Problems—One Solution. Warren J. Warwick, 1755
- Tick-Borne Encephalitis. Carl M. Eklund, 85
- Tremetol Intoxication (Milk Sickness). A. F. Hartmann, Jr., 605
- Trigger Fingers. Ronald L. Linscheid, 81
- Tsai, S. H.; Fink, Dan L. and van Herik, Martin: The First Time, 1911
- United States Air Force Central Tumor Registry. Fred G. Conrad, 445
- Vaginal Hysterectomy. Tiffany J. Williams, 1635
- Van Herik, Martin: Tsai, S. H. and Fink, Dan L.: The First Time, 1911
- Vascular Compression of the Distal Duodenum. Farrell S. Stiegler, 1079
- Vascular Fistulas of the Dura. Albert L. Rhoton, Jr., 755

# INDEX

- Vertebral Basilar Artery Insufficiency. Harold H. Noran, 261  
 Warwick, Warren J.: Three Problems—One Solution, 1755  
 Wilford Hall USAF Hospital. Reuben Berman, 441  
 Williams, Tiffany J.: Vaginal Hysterectomy, 1635  
 "Worms". John H. Thompson, Jr., 753  
 Wyss, F.; Pauli, H. G. and Studer, H.: The Department of Internal Medicine, 81

## EDITOR'S SOLILOQUY

Canned Consultation (October) .....	1639
Carcass Checkers (December) .....	1925
Honorable Men (March) .....	461
"In-Thing" To Do (August) .....	1215
Legally Correct (November) .....	1767
Litigation Disease (June) .....	935
Medical Education (April) .....	613
Meleagris Gallopavo, Homo Sapiens and Pig (September) .....	1403
Purism (May) .....	763
Social Dereliction (July) .....	1088
Span of a Professional Lifetime (January) .....	91
"Watching" A Breast Tumor? (February) .....	273

## F

- Fatal Posttransfusional Hepatitis in Switzerland. K. Stampfli, 53  
 Ferrokinetics in Polycythemia and Iron Deficiency Anemia. H. Kummer and U. Bucher, 47  
 Fetcher, E. S.: Changes of Diet and Risk Factors in the National Diet-Heart Study, 1243  
 Fredrickson, Donald T.: Help Your Patient Stop Smoking. Guidelines for the Office Physician, 1319  
 Freis, Edward D.; Armstrong, Mark L.; Tewksbury, Russell B. and Shaw, Lawrence W.: Veterans Multiclinic Trial of Drug Treatment in Hypertension, 1297  
 French, Lyle A.; Long, Don M.; Seljeskog, E. L. and Chou, Shelley N.: Acute Neurological Deterioration Following Lumbar Puncture, 247

## FRACTURE CONFERENCES

- A Subtrochanteric Fracture. M. E. Muller and H. C. Meuli, 117  
 Bianco, Anthony J., Jr.; Sebald, John R. and Johnson, Einer W., Jr.: More Problem Fractures in Children, 783  
 Chiroff, Richard T.; Johnson, Einer W., Jr.; Henderson, Edward D. and Santos, Ray E.: Fracture of the Os Calcis, 947  
 Earle, Jack L. and Payne, John F.: Fracture Dislocation of the Proximal Radial Epiphysis, 479  
 Fracture Dislocation of the Proximal Radial Epiphysis. John F. Payne and Jack L. Earle, 479  
 Fracture of the Os Calcis. Edward D. Henderson, Ray E. Santos, Richard T. Chiroff and Einer W. Johnson, Jr., 947  
 Henderson, Edward D.; Santos, Ray E.; Chiroff, Richard T. and Johnson, Einer W., Jr.: Fracture of the Os Calcis, 947  
 Janes, Joseph M.; Suiter, Ronald D. and Johnson, Einer W., Jr.: Some Complications of Hip Fractures, 1787

- Johnson, Einer W., Jr.; Bianco, Anthony J., Jr. and Sebald, John R.: More Problem Fractures in Children, 783  
 Johnson, Einer W., Jr.; Henderson, Edward D.; Santos, Ray E. and Chiroff, Richard T.: Fracture of the Os Calcis, 947  
 Johnson, Einer W., Jr.; Lipscomb, Paul R. and Southall, Rogers C.: Posttraumatic Affections of the Metacarpal Joints of the Thumb, 285  
 Johnson, Einer W., Jr.; Jones, Harry F. and Petrie, Clarence R.: Problems in Initial Treatment of Multiple Fractures, 1649  
 Johnson, Einer W., Jr.; Ivins, John C. and Nguyen, Vu V.: Shoulder-Hand Syndrome, 1115  
 Johnson, Einer W., Jr.; Janes, Joseph M. and Suiter, Ronald D.: Some Complications of Hip Fractures, 1787  
 Johnson, Einer W., Jr. and Vittands, Ingvars J.: Nerve Injuries in Fractures of the Lower Extremity, 627  
 Jones, Harry F.; Petrie, Clarence R. and Johnson, Einer W., Jr.: Problems in Initial Treatment of Multiple Fractures, 1649  
 Ivins, John C.; Nguyen, Vu V. and Johnson, Einer W., Jr.: Shoulder-Hand Syndrome, 1115  
 Lipscomb, Paul R.; Southall, Rogers C. and Johnson, Einer W., Jr.: Posttraumatic Affections of the Metacarpal Joints of the Thumb, 285  
 More Problem Fractures in Children. Anthony J. Bianco, Jr., John R. Sebald and Einer W. Johnson, Jr., 783  
 Meuli, H. C. and Muller, M. E.: A Subtrochanteric Fracture, 117  
 Muller, M. E. and Meuli, H. C.: A Subtrochanteric Fracture, 117  
 Nerve Injuries in Fractures of the Lower Extremity. Einer W. Johnson, Jr. and Ingvars J. Vittands, 627  
 Nguyen, Vu V.; Johnson, Einer W., Jr. and Ivins, John C.: Shoulder-Hand Syndrome, 1115  
 Payne, John F. and Earle, Jack L.: Fracture Dislocation of the Proximal Radial Epiphysis, 479  
 Petrie, Clarence R.; Jones, Harry F. and Johnson, Einer W., Jr.: Problems in Initial Treatment of Multiple Fractures, 1649  
 Posttraumatic Affections of the Metacarpal Joints of the Thumb. Paul R. Lipscomb, Rogers C. Southall and Einer W. Johnson, Jr., 285  
 Problems in Initial Treatment of Multiple Fractures. Harry F. Jones, Clarence R. Petrie and Einer W. Johnson, Jr., 1649  
 Santos, Ray E.; Chiroff, Richard T.; Johnson, Einer W., Jr. and Henderson, Edward D.: Fracture of the Os Calcis, 947  
 Sebald, John R.; Johnson, Einer W., Jr. and Bianco, Anthony J., Jr.: More Problem Fractures in Children, 783  
 Shoulder-Hand Syndrome. John C. Ivins, Vu V. Nguyen and Einer W. Johnson, Jr., 1115  
 Some Complications of Hip Fractures. Joseph M. Janes, Ronald D. Suiter and Einer W. Johnson, Jr., 1787  
 Southall, Rogers C.; Johnson, Einer W., Jr. and Lipscomb, Paul R.: Posttraumatic Affections of the Metacarpal Joints of the Thumb, 285  
 Suiter, Ronald D.; Johnson, Einer W., Jr. and Janes, Joseph M.: Some Complications of Hip Fractures, 1787

(Continued)

# MINNESOTA MEDICINE

## Fracture Conferences (Continued)

- Vittands, Ingvars J. and Johnson, Einer W., Jr.: Nerve Injuries in Fractures of the Lower Extremity, 627

## G

- Gambill, Earl E.: Abdominal Aortic Aneurysm Eroding into Duodenum. Pain at Unusual Site and Death from Gastrointestinal Hemorrhage, 227
- Garamella, Joseph J.; Lynch, Michael F.; Kelly, William D.; Bilgutay, Aydin M.; Jensen, Nathan Kenneth and Schmidt, W. Robert: Mediastinoscopy, 585
- Garetz, Floyd D.: Ethchlorvynol (Placidyl) Addiction Hazard, 1131
- General Practice. Joseph P. Connolly, J. A. Malerich, Jr. and Mark J. Wegleitner, 365
- Genesis and Therapy of the Trigger Finger. K. Lengenheger, 11
- Genetic Counseling for Parents—Children with Cystic Fibrosis, Agammaglobulinemia, or Fatal Granulomatous Disease of Childhood. V. Elving Anderson, 1570
- Gibbs, Gordon E.: Cystic Fibrosis—Pathogenesis of the Pulmonary Lesion, 1433
- Goldfarb, Benjie; Stark, Mary B.; Berman, Reuben; Trajano, Lorenzo F. and Berman, David A.: Treatment of Myocardial Infarction in a Coronary Care Unit, 743
- Gordon, Sewell S.: Regional Enteritis, Early Diagnosis, 1873
- Gorlin, Robert J. and Peterson, Willard C., Jr.: Thioflavine-T in Basal Cell Carcinoma and Ameloblastoma, 899
- Graybiel, Ashton; Oberman, Albert; Harlan, William R. and Smith, Margaret: The Cardiovascular Risk. Associated with Different Levels and Types of Elevated Blood Pressure, 1283
- Griswa, Philip; Tsai, S. H.; Loken, Merle and Ponto, Richard: Pulmonary Function—A Study in the Baboon Using Xenon-133 and a Scintillation Camera, 1893
- Gross Obesity—The Cardiovascular Consequences. James K. Alexander, 1289
- Gustilo, Ramon B. and Amren, Don P.: Acute Suppurative Arthritis in Children, 219

## GRAND ROUNDS

- Adult Scurvy. Rafael Carmena, 817
- Carlson, Erik E.: Lactic Acidosis, 655
- Carmena, Rafael: Adult Scurvy, 817
- Edin, Andrew E.: Needle Biopsy of the Parietal Pleura, 1011
- Hypercalcemia Associated with Non-Parathyroid Tumors. Richard R. Sturgeon, 1669
- Infantile Cytomegalic Inclusion Disease vs. Chronic Gastrointestinal Disturbances. E. Rossi and M. Kuhni, 125
- Kuhni, M. and Rossi, E.: Infantile Cytomegalic Inclusion Disease vs. Chronic Gastrointestinal Disturbances, 125
- Lactic Acidosis. Erik E. Carlson, 655
- Left Atrial Myxoma. Eliot Schechter, 523
- Lindall, Arnold W.: The Multiple System Effects of Diphenylhydantoin (Dilantin), 337
- Maheras, Mary G.: Penicillin Hypersensitivity, 1811
- Multiple System Effects of Diphenylhydantoin (Dilantin). Arnold W. Lindall, 337

- Needle Biopsy of the Parietal Pleura. Andrew E. Edin, 1011
- Penicillin Hypersensitivity. Mary Maheras, 1811
- Rossi, E. and Kuhni, M.: Infantile Cytomegalic Inclusion Disease vs. Chronic Gastrointestinal Disturbances, 125
- Schechter, Eliot: Left Atrial Myxoma, 523
- Sturgeon, Richard R.: Hypercalcemia Associated with Non-Parathyroid Tumors, 1669

## H

- Halpern, Daniel: Obstructive Lung Disease—Treatment by Physical Therapy, 1489
- Hammar, L. M.: The Admission Chest Film Program—Fifteen Years' Experience, 1899
- Hansen, JoAnne L. and Duffy, John: Psychiatric Aspects of Chronic Lung Disease, 1559
- Harlan, William R.; Smith, Margaret; Graybiel, Ashton and Oberman, Albert: The Cardiovascular Risk Associated with Different Levels and Types of Elevated Blood Pressure, 1283
- Harrington, Ryan B. and Olin, Ronald: Pernicious Anemia in North American Indians, 243
- Harris, Judith A. and Waring, William W.: Chronic Lung Disease—Clinical Evaluation of the Child, 1435
- Hassig, A.: Prophylaxis of Posttransfusion Hepatitis, 59
- Health Effects from Exposure to Air Pollutants. Harold J. Paulus, 1369
- Hellerstein, Herman K.: The Effects of Physical Activity—Patients and Normal Coronary Prone Subjects, 1335
- Help Your Patient Stop Smoking—Guidelines for the Office Physician. Donald T. Fredrickson, 1319
- Hematologic Toxicity of Chloramphenicol. John N. Mork, Wayne H. Thalhuber and William R. Swaim, 1619
- Hemolysis Associated with Intracardiac Prostheses—Diagnosis and Management. Rex B. Shafer and William R. Swaim, 1727
- Hepatic Coma in Pregnancy—Treated with Exchange Transfusion. Arnold W. Lindall, Donald Mason and Alvin L. Schultz, 1737
- Hepatitis in Infectious Mononucleosis. George Kitzmiller, 721
- Hepper, Norman G. G.: Cigarette Smoking and Chronic Respiratory Disease, 1373
- Hermans, Paul E.: Massive Diffuse Hypergammaglobulinemia—Its Diagnostic Significance, 1615
- Hodgkin's Disease—Current Views on Management. Y. Maruyama, 575
- Holsclaw, Douglas S. and Shwachman, Harry: Cystic Fibrosis—Surgical Treatment of Pulmonary Complications, 1547
- Holsclaw, Douglas S. and Shwachman, Harry: Pulmonary Complications of Cystic Fibrosis, 1521
- Hong, Richard: Office Diagnosis of Immunologic Deficiency, 1465
- Hong, Richard: The Physiology of Immunity, 1377
- How Cystic Fibrosis Can Be Confused with Chronic Bronchitis and Bronchial Asthma. Warren J. Warwick, 1476
- Howell, Llewelyn P.; Lambert, Edward H. and Souadjian, Jacques V.: Thymoma with Myopathy—Report of A Case, 595
- Hummer, William K. and Sheldon, Richard S.: Prolonged Gestation, 333



## INDEX

- Hyaline Membrane Disease—Danger of a Rational Approach to Therapy. V. Chernick, 1381  
Hypoxia and Renal Function—A Review of Experimental and Clinical Findings. H. G. Pauli, 29

### HISTORY OF MEDICINE

- Bonnabeau, Raymond C., Jr. and Lillehei, C. Walton: Development of Controlled Cardiac Pacemaking, 871  
Crouch, Thomas H. and Smith, Robert E.: Wilford Hall USAF Hospital, 541  
Development of Controlled Cardiac Pacemaking. Raymond C. Bonnabeau, Jr. and C. Walton Lillehei, 871  
Inselspital Berne. F. Kohler, 171  
Kohler, F.: The Inselspital Berne, 171  
Lillehei, C. Walton and Bonnabeau, Raymond C., Jr.: Development of Controlled Cardiac Pacemaking, 871  
Smith, Robert E. and Crouch, Thomas H.: Wilford Hall USAF Hospital, 541  
Wilford Hall USAF Hospital. Thomas H. Crouch and Robert E. Smith, 541

### I

- Identification of Excess Cardiovascular Risk—A Practical Approach. Thomas R. Dawber, 1217  
Imes, S. K.: Vascular Compression of the Distal Duodenum—Clinical Symptoms, 1055  
Induction of Labor by Intra-amniotic Injection of Hypertonic Solutions. Martin G. Weisberg, 773  
Infarct of the Prostate Causing Pyohydronephrosis. Stanley J. Antolak, Jr., 591  
Inhalation Therapy for Chronic Obstructive Pulmonary Disease. LeRoy W. Matthews and Carl F. Doershuk, 1483  
Introduction. Henry Blackburn, 1185  
In-Vivo Studies of Cellular Proliferation—The Use of Mitotic Figures. H. P. Wagner and H. Cottier, 63

### IN MEMORIAM

- Addy, Edward R. (December) 1906  
Arneson, Arthur I. (July) 1165  
Badeaux, George I. (February) 375  
Benedict, William L. (April) 698  
Binet, Henry E. (February) 375  
Caplan, Leslie (October) 1705  
Carlson, Russel Edward (February) 375  
Caron, Robert P. (October) 1706  
Cook, C. Kenneth (October) 1704  
Dahl, Elmer O. (December) 1906  
Emond, Albert J. (July) 1165  
Fahr, George E. (February) 375  
Fenger, Ejvind P. K. (October) 1706  
Fisher, Dan W. (October) 1704  
Frykman, Howard M. (December) 1906  
Giffin, Herbert Z. (July) 1165  
Gislason, Solveig (October) 1705  
Gleason, Wallace A. (February) 376  
Grindlay, John H. (April) 697  
Halpin, Joseph E. (February) 376  
Hannah, Hewitt B. (April) 698  
Hedenstrom, Paul H. (December) 1906  
Hirschboeck, F. J. (December) 1906  
Hudson, George E. (July) 1165

- Keating, Francis Raymond (October) 1706  
Larson, Keith D. (December) 1906  
Larson, Leonard M. (February) 376  
Lende, Norman (April) 697  
Lepak, Francis J. (February) 376  
Lund, Carl J. T. (December) 1906  
Maland, Clarence O. (October) 1705  
Martineau, Joseph L. (October) 1704  
Mattson, Hamlin A. N. (October) 1704  
McClanahan, Thomas S. (October) 1706  
McLaughlin, Edmund M. (February) 375  
McManus, William F. (July) 1165  
McMurtrie, William B. (October) 1705  
Meyer, E. Lawrence (February) 376  
Meyerding, Henry William (October) 1706  
Moberg, Clarence William (April) 698  
Moe, Thomas (February) 375  
Nuetzman, Arthur William (October) 1704  
Pearce, Naboth O. (April) 608  
Randall, Lawrence M. (April) 697  
Rasmussen, Ramby C. (October) 1704  
Ritchie, Wallace P. (April) 697  
Schultz, Earl Arthur (July) 1165  
Searl, Richard H. (October) 1705  
Seibel, David I. (October) 1706  
Sherman, Charles L. (October) 1705  
Smith, Frederick L. (December) 1906  
Smith, Harry LeRoy (April) 697  
Solsem, Frederick N. (October) 1705  
Thorsen, David S. (October) 1705  
Will, William W. (October) 1705  
Williams, Clayton K. (October) 1704

### IT'S THE LAW

- Cost of Kidney Transplant Deductible by Donee (April) 701  
Hospital Liable for Unauthorized Autopsy (February) 241  
Hospital Liable for Urethral Tear from Catheter (July) 1140  
Involuntary Blood Sample Admissible (March) 436  
Leaving Sponge in Body Not Necessarily Negligent (May) 356  
MacKinnon, Donald C.: The Right of Access to Medical Records (August) 1301  
Misfilling of Prescription for "The Pill" (October) 1672  
No Liability for Electroshock Therapy Injuries (June) 908  
No Negligence in Treatment of Perirectal Wound (November) 1823  
Permitting Office Girl to Treat Patient Is Evidence of Doctor's Negligence (February) 236  
Physician's Bills Recoverable in Personal Injury Suit (December) 1936  
Physician Not Liable for Postoperative Infection (September) 1503  
Primer of Parliamentary Procedure—The Tactics of Delay (January) 40  
Right of Access to Medical Records (August) 1301

### J

- Jamra, Fawzi N. Abu; Erich, John B. and Woolner, Lewis B.: Tumors of the Upper Lip—Benign and Malignant, 915  
Jensen, Nathan Kenneth; Schmidt, W. Robert; Garamella, Joseph J.; Lynch, Michael F.; Kelly, William D. and Bilgutay, Aydin M.: Mediastinoscopy, 585

(Continued)

# MINNESOTA MEDICINE

J (Continued)

- Johnsen, Arvid F. and Duvall, Arndt J., III: Corrosive Esophagitis, 909  
 Johnson, F. E.; Kiser, J. C. and Peterson, T. A.: Open Heart Surgery in Elderly Patients, 231  
 Johnson, Thomas E.: Small Blood Vessel Syndrome: Constitutional Arterial Narrowing, 1903  
 Juergens, John L.; Ellefson, Ralph D.; Berge, Kenneth G. and Nunn, Stewart L.: A Lipid Clinic—Preliminary Observations, 1253  
 Juergens, John L.: Welcome, 1183

## K

- Kannel, William B.; Castelli, William P. and McNamara, Patricia M.: Serum Lipid Fractions and Risk of Coronary Heart Disease—the Framingham Study, 1225  
 Kannel, William B. and McNamara, Patricia M.: The Evidence for Excess Risk in Coronary Disease, 1197  
 Karvonen, M. J.; Roine, Paavo; Pekkarinen, Maija; Lehtosuo, E. J.; Alivirta, P.; Turpeinen, Osmo and Miettinen, Matti: Blood Lipids and Primary Coronary Events—the Effect of Diet Modification, 1247  
 Kelly, William D.; Bilgutay, Aydin M.; Jensen, Nathan Kenneth; Schmidt, W. Robert; Garamella, Joseph J. and Lynch, Michael F.: Mediastinoscopy, 585  
 Kendig, Edwin L., Jr.: Chronic Respiratory Diseases in Children, 1363  
 Kennedy, B. J.: Theologides, A. and Pflueger, O. H., Jr.: Toxoplasmosis and Pneumocystis Carinii Pneumonitis in a Patient with Chronic Lymphatic Leukemia, 737  
 Keys, Ancel: A Practical, Palatable Way of Eating, 1259  
 Keys, Ancel: Cardiology—The Essentiality of Prevention, 1191  
 Kiser, J. C.; Peterson, T. A. and Johnson, F. E.: Open Heart Surgery in Elderly Patients, 231  
 Kitzmiller, George: Hepatitis in Infectious Mononucleosis, 721  
 Kullmann, George L. and Cody, D. Thane R.: The Anatomy of the Facial Nerve, 213  
 Kummer, H. and Bucher, U.: Ferrokinesics in Polycythemia and Iron Deficiency Anemia, 47

## L

- Lambert, Edward H.; Howell, Llewelyn P. and Souadjan, Jacques V.: Thymoma with Myopathy—Report of A Case, 595  
 Lehtosuo, E. J.; Alivirta, P.; Turpeinen, Osmo; Miettinen, Matti; Karvonen, M. J.; Roine, Paavo and Pekkarinen, Maija: Blood Lipids and Primary Coronary Events—The Effect of Diet Modification, 1247  
 Lenggenhager, K.: The Genesis and Therapy of the Trigger Finger, 11  
 Leonard, Arnold A.; Quie, Paul G.; Oh, Myung-Hi Kim and Matsen, John M.: Antibiotic Therapy and Hospital-Acquired Infections, 1067  
 Ieren, Paul: Plasma Cholesterol Lowering Diet—The Effect in Male Survivors of Myocardial Infarction, 1231  
 Leslie, Loren R.: A Decade of Progress, 694

- L'Heureux, Philippe; Loken, Merle K. and Medina, Jose R.: Pulmonary Function Evaluation with 133 Xenon, 1455  
 Lindall, Arnold W.; Mason, Donald and Schultz, Alvin L.: Hepatic Coma in Pregnancy—Treated with Exchange Transfusion, 1737  
 Litwak, Oscar and Mussey, Elizabeth: Vaginal Hormonal Cytology, 731  
 Lofgren, Karl A.: Sublingual Varix, 1021  
 Loken, Merle K., Ponto, Richard, Griswold, Philip and Tsai, S. H.: Pulmonary Function—A Study in The Baboon Using Xenon-133 and A Scintillation Camera, 1893  
 Loken, Merle K., Medina, Jose R. and L'Heureux, Philippe: Pulmonary Function Evaluation with 133 Xenon, 1455  
 Long, Don M.; Seljeskog, E. L.; Chou, Shelley N. and French, Lyle A.: Acute Neurological Deterioration Following Lumbar Puncture, 247  
 Lucas, Russell V., Jr.: Cardiac Complications of Chronic Pulmonary Disease in Childhood, 1537  
 Lucas, Russell V., Jr.: Congenital Cardiac Disease—Causal Factor in Pediatric Pulmonary Disease, 1415  
 Luethi, A. and Studer, H.: Antidiuretic Action of Chlorpropamide and Tolbutamide, 33  
 Lundsgaard-Hansen, P.; Meyer, C.; Riedwyl, H. and Zierott, G.: Cardiac Metabolism in Experimental Hemorrhagic Shock, 23  
 Lynch, Michael F.; Kelly, William D.; Bilgutay, Aydin M.; Jensen, Nathan Kenneth; Schmidt, W. Robert and Garamella, Joseph J.: Mediastinoscopy, 585  
 Lynn, Hugh B. and Mahour, G. Hossein: Tumors in Infancy and Childhood, 1679

## LABORATORY LETTERS

- Reece, Richard L.:  
 A Little on Lupus and Its Fluorescent Nucleus (July) 1130  
 Chemistry Graphs in Liver Diseases (January) 179  
 "Normal Ranges" and Aging (October) 1673  
 Pill and Protein Bound Iodine and T-3 Results (February) 280  
 Rusty About Iron Metabolism? (November) 1805  
 Three Lipid Tests (May) 835  
 Triglycerides, Too (September) 1404  
 Urinary Steroid Tests (June) 938  
 Wall Chart of Abnormal Values (April) 644

## LAW AND MEDICINE

- Chou, Shelley; Tierney, R. Joel; Najarian, John S.; Lillehei, Richard C.; Ersek, Robert A. and Cutting, Ernest: Procurement of Transplantable Tissues, 183  
 Cutting, Ernest; Chou, Shelley; Tierney, R. Joel; Najarian, John S.; Lillehei, Richard C. and Ersek, Robert A.: Procurement of Transplantable Tissues, 183  
 Ersek, Robert A.; Cutting, Ernest; Chou, Shelley; Tierney, R. Joel; Najarian, John S. and Lillehei, Richard C.: Procurement of Transplantable Tissues, 183  
 Lillehei, Richard C.; Ersek, Robert A.; Cutting, Ernest; Chou, Shelley; Tierney, R. Joel and Najarian, John S.: Procurement of Transplantable Tissues, 183

## INDEX

- Najarian, John S.; Lillehei, Richard C.; Ersek, Robert A.; Cutting, Ernest; Chou, Shelley and Tierney, R. Joel: Procurement of Transplantable Tissues, 183
- Procurement of Transplantable Tissues. Robert A. Ersek, Ernest Cutting, Shelley Chou, R. Joel Tierney, John S. Najarian and Richard C. Lillehei, 183
- Tierney, R. Joel; Najarian, John S.; Lillehei, Richard C.; Ersek, Robert A.; Cutting, Ernest and Chou, Shelley: Procurement of Transplantable Tissues, 183

### LETTER TO THE EDITOR

- Bearse, Carl (September) 1399
- Gutgemann, Prof. Alfred (March) 459
- Indeck, Walter (July) 1087
- Jacob, Rabbi Ben (March) 459
- Jensen, Reynold A. (December) 1923
- Kiser, Joseph C. (May) 761
- Waldron-Lynch, D. (February) 267
- Winchell, Paul (May) 761
- Zellner, Robert E. (September) 1401

### M

- MacDonald, Giles F.; Dines, David E.; Sessler, Alan D. and Titus, Jack L.: Prolonged Oxygen Therapy and Mechanical Ventilation—Associated Pulmonary Abnormalities, 1745
- Mahour, G. Hossein and Lynn, Hugh B.: Tumors in Infancy and Childhood, 1679
- Malerich, J. A., Jr.; Wegleitner, Mark J. and Connolly, Joseph P.: General Practice, 365
- Malmquist, Carl P.: Suicide and Related Clinical Problems, 1597
- Management-Comprehensive Treatment of Cystic Fibrosis. LeRoy W. Matthews and Carl F. Doershuk, 1506
- Management of Rh ISO-Immunization by Amniotic Fluid Analysis. Dale R. Dunnihoo, 431
- Maruyama, Y.: Hodgkin's Disease—Current Views on Management, 575
- Mason, Donald; Schultz, Alvin L. and Lindall, Arnold W.: Hepatic Coma in Pregnancy—Treated with Exchange Transfusion, 1737
- Massive Diffuse Hypergammaglobulinemia—Its Diagnostic Significance. Paul E. Hermans, 1615
- Matsen, John M.; Leonard, Arnold A.; Quie, Paul G. and Oh, Myung-Hi Kim: Antibiotic Therapy and Hospital-Acquired Infections, 1067
- Matsen, John M.: Disc Sensitivities in the Selection of Antibiotics, 1499
- Matthews, LeRoy W. and Doershuk, Carl F.: Inhalation Therapy for Chronic Obstructive Pulmonary Disease, 1483
- Matthews, LeRoy W. and Doershuk, Carl F.: Management-Comprehensive Treatment of Cystic Fibrosis, 1506
- McNamara, Patricia and Kannel, William B.: The Evidence for Excess Risk in Coronary Disease, 1197
- McNamara, Patricia M.; Kannel, William B. and Castelli, William P.: Serum Lipid Fractions and Risk of Coronary Heart Disease—The Framingham Study, 1225
- Mediastinoscopy. Aydin M. Bilgutay, Nathan Kenneth Jensen, W. Robert Schmidt, Joseph J. Garamella, Michael F. Lynch and William D. Kelly, 585

- Medina, Jose R.; L'Heureux, Philippe and Loken, Merle K.: Pulmonary Function Evaluation with 133 Xenon, 1455
- Messner, Ronald P.; Shapiro, Fred L. and Smith, Henry T.: Anuria Secondary to Ethylene Glycol Intoxication, 1049
- Meyer, C.; Riedwyl, H.; Zierott, G. and Lundsgaard-Hansen, P.: Cardiac Metabolism in Experimental Hemorrhagic Shock, 23
- Michels, Max I. and Smith, Robert E.: Significance of Late-Developing Reactions in Allergy Skin-Testing—Clinical Correlations, 421
- Miettinen, Matti; Karvonen, M. J.; Roine, Paavo, Pekkarinen, Maija; Lehtosuo, E. J.; Alivirta, P. and Turpeinen, Osmo: Blood Lipids and Primary Coronary Events—The Effect of Diet Modification, 1247
- Modifying Elevated Blood Pressure—A Practical Office Approach. Louis Tobian, 1307
- Moffitt, Emerson A. and Tarhan, Sait: Anesthesia after Myocardial Infarction, 1733
- Mork, John N.; Thalhuber, Wayne H. and Swaim, William R.: Hematologic Toxicity of Chloramphenicol, 1619
- Mumenthaler, M. and Spiess, H.: Central European Encephalitis ("Tick-borne Encephalitis") in Switzerland. Discussion of Nine Known Cases, 41
- Mussey, Elizabeth and Litwak, Oscar: Vaginal Hormonal Cytology, 731
- Myelography, Past and Present (1935-1968). Harold O. Peterson, 1881
- Myers, Paul W.: Anterior Spinal Fusion, 391

### MEDICINE IN HISTORY

- Burke, E. C.: Childhood Rickets—Revival of an Ancient Menace, 1821
- Burke, Edmund C.: Dostoevsky's Pulmonary Disease, 685
- Childhood Rickets. Edmund C. Burke, 1821
- Dostoevsky's Pulmonary Disease. Edmund C. Burke, 685

### MINNESOTA STATE BOARD OF MEDICAL EXAMINERS

- Notice of Hearing Minnesota Statutes Section 15.0412 (March) 472
- Notice of Hearing Minnesota Statutes Section 15.0412 (September) 1460

### MISCELLANEOUS

- Binet, Eugene F.: Medical Terms and Their Lay Synonyms, 1732, 1902
- Distinguished Service in Minnesota, 1093
- Fifty Club Members, 1094
- Honorable Mention, 1214
- Stanley R. Maxeiner, M.D., George D. McConnell, 615
- Maxeiner, S. R., Jr.: What's Your Score in Alcohol? 620
- Medical Terms and Their Lay Synonyms, 1732, 1902
- Minnesota Medicine Honor Award, 937
- Minnesota Medicine Honor Certificate, 939
- Minnesota State Medical Association 116th Annual Meeting, 691 and 875
- Dr. Harold O. Petersen. Leo G. Rigler, 1926
- What's Your Score in Alcohol? S. R. Maxeiner, Jr., 620

## MINNESOTA MEDICINE

### JAMES E. MOORE SOCIETY

Krook, James: Man's Early Challenge to Neoplasms, 1159

Man's Early Challenge to Neoplasms. James Krook, 1159

### N

Nunn, Stewart L.; Juergens, John L.; Ellefson, Ralph D. and Berge, Kenneth G.: A Lipid Clinic—Preliminary Observations, 1253

### O

Oberman, Albert; Harlan, William R.; Smith, Margaret and Graybiel, Ashton: The Cardiovascular Risk Associated with Different Levels and Types of Elevated Blood Pressure, 1283

Obesity and Nutrition Education—Community Approach to Prevention of Coronary Heart Disease. George Christakis, 1279

Obstructive Lung Disease—Treatment by Physical Therapy. Daniel Halpern, 1489

Office Diagnosis of Immunologic Deficiency. Richard Hong, 1465

Oh, Myung-Hi Kim; Matsen, John M.; Leonard, Arnold A. and Quie, Paul G.: Antibiotic Therapy and Hospital-Acquired Infections, 1067

Olin, Ronald and Harrington, Ryan B.: Pernicious Anemia in North American Indians, 243

Open Heart Surgery in Elderly Patients. J. C. Kiser, T. A. Peterson and F. E. Johnson, 231

Organic Solvents in Blood. U. P. Schlunegger, 175

Orr, Gerald W.: Physical Conditioning Course for Children with Asthma, 1461

Overweight and Obesity—The Associated Cardiovascular Risk. Carl C. Seltzer, 1265

### OLD HOSPITALS

Warren Kump:

Epidauros (September) 1368

Fort Crawford Military Hospital (June) 920

Hospital of the Holy Spirit, Rome (August) 1202

Hospital de Jesus Nazareno, Mexico City (July) 1060

Ospedale Fatebenefratelli, Rome (October) 1608

Royal Hospital of New Orleans (December) 1872

Ship of Aesculapius (November) 1740

### OTOLARYNGOLOGY CLINICS

Boies, Lawrence R.: The Nature of Otolaryngology, 953

Diagnostic Management of the Neck Mass. Arndt J. Duvall, III and Richard A. Schlorf, 1127

Duvall, Arndt J., III and Schlorf, Richard A.: The Diagnostic Management of the Neck Mass, 1127

Nature of Otolaryngology. Lawrence R. Boies, 953

Nelms, C. Randall, Jr. and Paparella, Michael M.: Otolgia, 955

Otolgia. C. Randall Nelms, Jr. and Michael M. Paparella, 955

Otolaryngology Clinics. Michael M. Paparella, 953

Paparella, Michael M. and Nelms, C. Randall, Jr.: Otolgia, 955

Paparella, Michael M.: Otolaryngology Clinics, 953

Schlorf, Richard A. and Duvall, Arndt J., III: The Diagnostic Management of the Neck Mass, 1127

### P

Patterson, Paul R.: Social Stigmata of Cystic Fibrosis, 1556

Paul, Oglesby: Physical Inactivity—The Associated Cardiovascular Risk, 1327

Pauli, H. G.: Hypoxia and Renal Function—A Review of Experimental and Clinical Findings, 29

Paulus, Harold J.: Health Effects from Exposure to Air Pollutants, 1369

Payne, John F. and Chambers, George H.: Treatment of Dog-Bite Wounds, 427

Pearce, Morton Lee and Dayton, Seymour: Diet High in Unsaturated Fat—A Controlled Clinical Trial, 1237

Pekkarinen, Maija; Lehtosuo, E. J.; Alivirta, P.; Turpeinen, Osmo; Miettinen, Matti; Karvonen, M. J. and Roine, Paavo: Blood Lipids and Primary Coronary Events—The Effect of Diet Modification, 1247

Pernicious Anemia in North American Indians. Ronald Olin and Ryan B. Harrington, 243

Peterson, Harold O.: Myelography, Past and Present (1935-1968), 1881

Peterson, T. A.; Johnson, F. E. and Kiser, J. C.: Open Heart Surgery in Elderly Patients, 231

Peterson, Willard C., Jr. and Gorlin, Robert J.: Thioflavine-T, in Basal Cell Carcinoma and Ameloblastoma, 899

Pflueger, O. H.; Kennedy, B. J. and Theologides, A.: Toxoplasmosis and Pneumocystis Carinii Pneumonitis in a Patient with Chronic Lymphatic Leukemia, 737

Physical Conditioning Course for Children with Asthma. Gerald W. Orr, 1461

Physical Inactivity—The Associated Cardiovascular Risk. Oglesby, Paul, 1327

Physiology of Immunity. Richard Hong, 1377

Plasma Cholesterol Lowering Diet—The Effect in the Male Survivors of Myocardial Infarction. Paul Leren, 1231

Plastic Operations on the Fallopian Tubes. Thomas A. Starkey and Tiffany J. Williams, 903

Pogue, Richard E. and Warwick, Warren J.: Cystic Fibrosis—A New Challenge to Internal Medicine, 1551

Ponto, Richard; Griswold, Philip; Tsai, S. H. and Loken, Merle K.: Pulmonary Function—A Study in the Baboon Using Xenon-133 and A Scintillation Camera, 1893

Post-Intubation Granuloma of the Larynx. Richard A. Schlorf and Arndt J. Duvall, III, 717

Preator, Richard F. and Chambers, George H.: Subtalar Inflammatory Response to Stress—A Cause of Foot Pain, 417

Priestley, James T. and van Heerden, Jonathan A.: An Unusual "Complication" of A Duodenal Diverticulum—Report of A Case, 583

Primary Malignant Lymphoma of Small Intestine. Special Emphasis on Results of Treatment. Roger E. Cupps, Malcolm B. Dockerty and Martin A. Adson, 1865

Prolonged Gestation. William K. Hummer and Richard S. Sheldon, 333



## INDEX

### P (Continued)

- Prolonged Oxygen Therapy and Mechanical Ventilation—Associated Pulmonary Abnormalities. Giles F. MacDonald, David E. Dines, Alan D. Sessler and Jack L. Titus, 1745
- Prophylaxis of Posttransfusion Hepatitis. A. Hassig, 59
- Propranolol in Angina Pectoris. John H. Brinkman and Carl S. Alexander, 725
- Protocol for Cope Needle Pleural Biopsy. Andrew E. Edin, 1034
- Psychiatric Aspects of Chronic Lung Disease. John Duffy and JoAnne L. Hansen, 1559
- Pulmonary Complications of Cystic Fibrosis. Harry Shwachman and Douglas S. Holsclaw, 1521
- Pulmonary Failure in Asthma and Cystic Fibrosis. John S. Rydberg, 1529
- Pulmonary Function—A Study in the Baboon Using Xenon-133 and A Scintillation Camera. S. H. Tsai, Merle K. Loken, Richard Ponto and Philip Grisw, 1893
- Pulmonary Function Evaluation with 133 Xenon. Jose R. Medina, Philippe L'Heureux and Merle K. Loken, 1455
- Pulmonary Function Laboratory—Role in the Evaluation of Pulmonary Disease in Children. V. Chernick, 1445

### PEDIATRICS

- Allen, Hugh D.; Kosciolk, Edward J.; ten Bessel, Robert W. and Raile, Richard B.: The Battered Child Syndrome—Part II—Social and Psychiatric Aspects, 155
- Allen, Hugh D.; ten Bessel, Robert W. and Raile, Richard B.: The Battered Child Syndrome—Part III—Legal Aspects, 345 and Part IV—Summary, 539
- Battered Child Syndrome:  
Part II—Social and Psychiatric Aspects, Hugh D. Allen, Edward J. Kosciolk, Robert W. ten Bessel and Richard B. Raile, 155  
Part III—Legal Aspects. Hugh D. Allen, Robert W. ten Bessel and Richard B. Raile, 345  
Part IV—Summary. Hugh D. Allen, Robert W. ten Bessel and Richard B. Raile, 539
- Kosciolk Edward J.; ten Bessel, Robert W.; Raile, Richard B. and Allen, Hugh D.: The Battered Child Syndrome. Part II—Social and Psychiatric Aspects, 155
- Raile, Richard B.; Allen Hugh D. and ten Bessel, Robert W.: The Battered Child Syndrome—Part II—Social and Psychiatric Aspects, 155—Part III—Legal Aspects, 345 and Part IV—Summary, 539
- ten Bessel, Robert W.; Raile, Richard B. and Allen Hugh D.: The Battered Child Syndrome—Part II—Social and Psychiatric Aspects, 155—Part III—Legal Aspects, 345 and Part IV—Summary, 539

### PHYSICIAN'S WORKSHOP

- DeRemee, Richard A.: The Velcro Rale, 1827
- Velcro Rale. Richard A. DeRemee, 1827

### PRESIDENT'S LETTER

- Association of Minnesota Internists. Herbert W. Johnson (November) 1723
- Blake, James A.: Eighteen Years of the Physicians' Assistance Committee (April) 571

- Chronic Respiratory Disease in Children. Warren J. Warwick (September) 1359
- Dermatology. R. K. Winkelmann (October) 1583
- Eighteen Years of the Physicians' Assistance Committee. James A. Blake (April) 571
- George E. Fahr, M.D. (1882-1968)—O. L. N. Nelson (January) 7
- Gillespie, Delmar R.: Medical Students (September) 1402
- Gillespie, Delmar R.: 116th Anniversary in May (June) 895
- Gillespie, Delmar R.: Prevention in Cardiology (August) 1177
- Gillespie, Delmar R.: The year 1969 (December) 1924
- Health Care Programs. Walter L. Wilder (July) 1045
- Identity. Robert L. Pedersen (December) 1855
- Johnson, Herbert W.: Association of Minnesota Internists (November) 1723
- Medical Students. Delmar R. Gillespie (September) 1402
- Minnesota Radiological Society. Martin Van Herik (February) 209
- Nelson, O. L. N.: George E. Fahr, M.D. (1882-1968) (January) 7
- Nelson, O. L. N.: 116th Annual Meeting (May) 713
- Nelson, O. L. N.: Our Notable Predecessors (March) 387
- 116th Anniversary in May. Delmar R. Gillespie (June) 895
- 116th Annual Meeting. O. L. N. Nelson, (May) 713
- Our Notable Predecessors. O. L. N. Nelson (March) 387
- Pedersen, Robert L.: Identity (December) 1855
- Prevention in Cardiology. Delmar R. Gillespie (August) 1177
- Van Herik, Martin: Minnesota Radiological Society (February) 209
- Warwick, Warren J.: Chronic Respiratory Disease in Children (September) 1359
- Wilder, Walter L.: Health Care Programs (July) 1045
- Winkelmann, R. K.: Dermatology (October) 1583

### Q

- Quie, Paul G.: Bacteria in the Sputum—Pediatric Patients with Chronic Pulmonary Disease, 1545
- Quie, Paul G.; Oh, Myung-Hi Kim; Matsen, John M. and Leonard, Arnold A.: Antibiotic Therapy and Hospital-Acquired Infections, 1067

### R

- Radioisotope Dilution Assay for Vitamin B<sub>12</sub>—Experiences. Guilford M. Dudley, III, and Charles A. Colman, Jr., 413
- Reducing Cardiovascular Risk—The Basis and Feasibility. Jeremiah Stamler, 1342
- Reducing Elevated Blood Pressure — Experience Found in a Community. Joseph A. Wilber and J. Gordon Barrow, 1303
- Regional Enteritis—Early Diagnosis. Sewell Gordon, 1873
- Renal Clearances—Comparative Studies of Sodium Thiosulfate and Na<sub>2</sub>Cr (Cr<sup>VI</sup>) Ethylenediaminetetracetate (Cr<sup>VI</sup>-EDTA) in Man. C. Vorbuerger and F. Reubi, 37
- Respiratory Complications of Cystic Fibrosis—Prevention. Warren J. Warwick, 1567

(Continued)

## R (Continued)

- Reubi, F. and Vorburger, C.: Renal Clearances—Comparative Studies of Sodium Thiosulfate and  $\text{Na}_2\text{Cr}$  ( $\text{Cr}^{6+}$ ) Ethylenediaminetetracetate ( $\text{Cr}^{6+}$ -EDTA) in Man, 37
- Richterich, R. and Ehrengruber, H.: Electronic Data Processing in the Clinical Laboratory—A Routine System for Clinical Chemistry, 69
- Riedwyl, H.; Zierott, G.; Lundsgaard-Hansen, P. and Meyer, C.: Cardiac Metabolism in Experimental Hemorrhagic Shock, 23
- Roine, Paave; Pekkarinen, Maija; Lehtosuo, E. J.; Alivirta, P.; Turpeinen, Osmo; Miettinen, Matti and Karvonen, M. J.: Blood Lipids and Primary Coronary Events—The Effect of Diet Modification, 1247
- Rydberg, John S.: Pulmonary Failure in Asthma and Cystic Fibrosis, 1529

## REVIEW

- Factors Influencing Vitamin  $\text{B}_{12}$  Absorption. Bruce E. Hyde, 837
- Gharib, Hossein: Steroid Diabetes, 669
- Giardia Lambli as Parasite in Humans. Thomas Mears and Horace H. Zinneman, 1107
- Hyde, Bruce E.: Factors Influencing Vitamin  $\text{B}_{12}$  Absorption, 837
- Malkasian, George D., Jr. and Meyer, William C.: Placental Localization, 1001
- Mears, Thomas and Zinneman, Horace H.: Giardia Lambli as Parasite in Humans, 1107
- Meyer, William C. and Malkasian, George D., Jr.: Placental Localization, 1001
- Placental Localization. William C. Meyer and George D. Malkasian, Jr., 1001
- Steroid Diabetes. Hossein Gharib, 669
- Zinneman, Horace H. and Mears, Thomas: Giardia Lambli as Parasite in Humans, 1107

## S

- Schlorf, Richard A. and Duvall, Arndt J., III: Post-Intubation Granuloma of the Larynx, 717
- Schlunegger, U. P.: Organic Solvents in Blood, 175
- Schmidt, W. Robert; Garamella, Joseph J.; Lynch, Michael F.; Kelly, William D.; Bilgutay, Aydin M. and Jensen, Nathan Kenneth: Mediastinoscopy, 585
- Schultz, Alvin L.; Lindall, Arnold W. and Mason, Donald: Hepatic Coma in Pregnancy Treated with Exchange Transfusion, 1737
- Seljeskog, E. L.; Chou, Shelley N.; French, Lyle A. and Long, Don M.: Acute Neurological Deterioration Following Lumbar Puncture, 247
- Seltzer, Carl C.: Overweight and Obesity—The Associated Cardiovascular Risk, 1265
- Serum Lipid Fractions and Risk of Coronary Heart Disease—The Framingham Study. William B. Kannel, William P. Castelli and Patricia M. McNamara, 1225
- Sessler, Alan D.; Titus, Jack L.; MacDonald, Giles F. and Dines, David E.: Prolonged Oxygen Therapy and Mechanical Ventilation—Associated Pulmonary Abnormalities, 1745
- Shafer, Rex B. and Swaim, William R.: Hemolysis Associated with Intracardiac Prostheses—Diagnosis and Management, 1727
- Shapiro, Fred L.; Smith, Henry T. and Messner, Ronald P.: Anuria Secondary to Ethylene Glycol Intoxication, 1049
- Shaw, Lawrence W.; Freis, Edward D.; Armstrong, Mark L. and Tewksbury, Russell B.: Veterans Multiclinic Trial of Drug Treatment in Hypertension, 1297
- Sheldon, Richard S. and Hummer, William K.: Prolonged Gestation, 333
- Shertzer, John H.; Bickel, William H. and Stubbins, Sam G.: Congenital Pseudarthrosis of the Ulna—Report of Two Cases, 1061
- Shwachman, Harry and Holsclaw, Douglas S.: Cystic Fibrosis—Surgical Treatment of Pulmonary Complications, 1547
- Shwachman, Harry and Holsclaw, Douglas S.: Pulmonary Complications of Cystic Fibrosis, 1521
- Significance of Late-Developing Reactions in Allergy Skin-Testing—Clinical Correlations. Max I. Michels and Robert E. Smith, 421
- Silvis, Stephen E.; Turkbash, Nejat; Swaim, William R. and Doscherholmen, Alfred: Thrombocytosis—A Clinical Evaluation of 322 Patients, 1603
- Skolnick, Judah L. and Dines, David E.: Tussive Syncope, 1609
- Small Blood Vessel Syndrome: Constitutional Arterial Narrowing. Thomas E. Johnson, 1903
- Smith, Henry T.; Messner, Ronald P. and Shapiro, Fred L.: Anuria Secondary to Ethylene Glycol Intoxication, 1049
- Smith, Margaret; Graybiel, Ashton; Oberman, Albert and Harlan, William R.: The Cardiovascular Risk Associated with Different Levels and Types of Elevated Blood Pressure, 1283
- Smith, Robert E. and Michels, Max I.: Significance of Late-Developing Reactions in Allergy Skin-Testing—Clinical Correlations, 421
- Smoking—Reducing the Dangers. Ronald G. Vincent, 1314
- Social Stigmata of Cystic Fibrosis. Paul R. Patterson, 1556
- Souadjan, Jacques V.; Howell, Llewelyn P. and Lambert, Edward H.: Thymoma with Myopathy—Report of A Case, 595
- Spiess, H. and Mumenthaler, M.: Central European Encephalitis ("Tick-borne Encephalitis") in Switzerland, 41
- Spock, Alexander: Cystic Fibrosis—Current Theories Concerning the Pathogenesis, 1429
- Stamler, Jeremiah: Reducing Cardiovascular Risk—The Basis and Feasibility, 1342
- Stampfli, K.: Fatal Posttransfusional Hepatitis in Switzerland, 53
- Stanford, William; Dooley, Byron N. and Armstrong, Raymond G.: Artery Shunt for Cyanotic Heart Disease—Intrapericardial Ascending Aorta—Right Pulmonary Artery Anastomosis, 409
- Stark, Mary B.; Berman, Reuben; Trajano, Lorenzo F.; Berman, David A. and Goldfarb, Benjie: Treatment of Myocardial Infarction in a Coronary Care Unit, 743
- Starkey, Thomas A. and Williams, Tiffany J.: Plastic Operations on the Fallopian Tubes, 903
- Stirnemann, Hans: Treatment of Tetanus—A 50-Year Review, 15
- Stubbins, Sam G.; Bickel, William H. and Shertzer, John H.: Congenital Pseudarthrosis of the Ulna—Report of Two Cases, 1061
- Studer, H. and Luethi, A.: Antidiuretic Action of Chlorpropamide and Tolbutamide, 33
- Subclinical Pulmonary Disease in Children—An Exercise in "Subclinical" Logic. William W. Waring, 1562
- Sublingual Varix. Karl A. Lofgren, 1021
- Subtalar Inflammatory Response to Stress—A Cause of Foot Pain. George H. Chambers and Richard F. Preator, 417
- Suicide and Related Clinical Problems. Carl P. Malmquist, 1597
- Swaim, William R.; Doscherholmen, Alfred; Silvis, Stephen E. and Turkbash, Nejat: Thrombocytosis—A Clinical Evaluation of 322 Patients, 1603
- Swaim, William R.; Mork, John N. and Thalhuber, Wayne H.: Hematologic Toxicity of Chloramphenicol, 1619
- Swaim, William R. and Shafer, Rex B.: Hemolysis Associated with Intracardiac Prostheses—Diagnosis and Management, 1727

## INDEX

### SPECIAL ARTICLE

- A New Low-Dose Combination Oral Contraceptive. Edward T. Tyler, 1833
- Berne—Queen of Swiss Cities. Guido Schmezer, 165
- Controlled Oxygen Administration in Respiratory Failure. David E. Dines, Jui-Sung Hung, William F. Reilly, Jr. and Richard A. Willson, 1029
- Dines, David E.; Hung, Jui-Sung; Reilly, William F., Jr. and Willson, Richard A.: Controlled Oxygen Administration in Respiratory Failure, 1029
- Dlin, Barney M.: The Doctor, His Emotions and His Heart, 369
- Doctor, His Emotions and His Heart. Barney M. Dlin, 369
- Gold, David: Splitting of the Atrial Sounds, 1693
- Hermann, Harold W.: The Relationship of Neonatal Nutrition to Brain Growth, 867
- Hung, Jui-Sung; Reilly, William F., Jr.; Willson, Richard A. and Dines, David E.: Controlled Oxygen Administration in Respiratory Failure, 1029
- Nelson, C. B.; Zymet, Carl L. and Williams, Leslie P., Jr.: Trichinosis Outbreak in Minnesota and Iowa Associated with Consumption of Summer Sausage, 1153
- Reilly, William F., Jr.; Willson, Richard A.; Dines, David E. and Hung, Jui-Sung: Controlled Oxygen Administration in Respiratory Failure, 1029
- Relationship of Neonatal Nutrition to Brain Growth. Harold W. Hermann, 867
- Schmezer, Guido: Berne—Queen of Swiss Cities, 165
- Splitting of the Atrial Sounds. David Gold, 1693
- Trichinosis Outbreak in Minnesota and Iowa Associated with Consumption of Summer Sausage. Leslie P. Williams, Jr., C. B. Nelson and Carl L. Zymet, 1153
- Tyler, Edward T.: A New Low-Dose Combination Oral Contraceptive, 1833
- Value of Graphic Methods in a Teaching Hospital. John L. Wanamaker, 549
- Wanamaker, John L.: Value of Graphic Methods in a Teaching Hospital, 549
- Williams, Leslie P., Jr.; Nelson, C. B. and Zymet, Carl L.: Trichinosis Outbreak in Minnesota and Iowa Associated with Consumption of Summer Sausage, 1153
- Willson, Richard A.; Dines, David E.; Hung, Jui-Sung and Reilly, William F., Jr.: Controlled Oxygen Administration in Respiratory Failure, 1029
- Zymet, Carl L.; Williams, Leslie P., Jr. and Nelson, C. B.: Trichinosis Outbreak in Minnesota and Iowa Associated with Consumption of Summer Sausage, 1153

### T

- Tarhan, Sait and Moffitt, Emerson A.: Anesthesia after Myocardial Infarction, 1733
- Tewksbury, Russell B.; Shaw, Lawrence W.; Freis, Edward D. and Armstrong, Mark L.: Veterans Multiclinic Trial of Drug Treatment in Hypertension, 1297
- Thalhuber, Wayne H.; Swaim, William R. and Mork, John N.: Hematologic Toxicity of Chloramphenicol, 1619
- Theologides, A.; Pflueger, O. H., Jr. and Kennedy, B. J.: Toxoplasmosis and Pneumocystis Carinii-Pneumonitis in a Patient with Chronic Lymphatic Leukemia, 737

- Thioflavine-T in Basal Cell Carcinoma and Ameloblastoma. Willard C. Peterson, Jr. and Robert J. Gorlin, 899
- Three Basic Brain Models of the Last Three Centuries. Robert E. Buckley, 235
- Thrombocytosis—A Clinical Evaluation of 322 Patients. Stephen E. Silvis, Nejat Turkbas, William R. Swaim and Alfred Doscherholmen, 1603
- Thymoma with Myopathy—Report of A Case. Jacques V. Souadjian, Llewelyn P. Howell and Edward H. Lambert, 595
- Titus, Jack L.; MacDonald, Giles F.; Dines, David E. and Sesler, Alan D.: Prolonged Oxygen Therapy and Mechanical Ventilation—Associated Pulmonary Abnormalities, 1745
- Tobian, Louis: Modifying Elevated Blood Pressure—A Practical Office Approach, 1307
- Toxoplasmosis and Pneumocystis Carinii Pneumonitis in a Patient with Chronic Lymphatic Leukemia. A. Theologides, O. H. Pflueger, Jr. and B. J. Kennedy, 737
- Trajano, Lorenzo F.; Berman, David A.; Goldfarb, Benjie; Stark, Mary B. and Berman, Reuben: Treatment of Myocardial Infarction in a Coronary Care Unit, 743
- Treatment of Coronary Disease—Pathologic Limitations. Jesse E. Edwards, 1587
- Treatment of Dog-Bite Wounds. George H. Chambers and John F. Payne, 427
- Treatment of Myocardial Infarction in a Coronary Care Unit. Lorenzo F. Trajano, David A. Berman, Benjie Goldfarb, Mary B. Stark and Reuben Berman, 743
- Treatment of Tetanus—A 50-Year Review. Hans Stirnemann, 15
- Tsai, S. H.; Loken, Merle; Ponto, Richard and Griswold, Philip: Pulmonary Function—A Study in the Baboon Using Xenon-133 and A Scintillation Camera, 1893
- Tumors in Infancy and Childhood. G. Hossein Mahour and Hugh B. Lynn, 1679
- Tumors of the Upper Lip—Benign and Malignant. Fawzi N. Abu Jamra, John B. Erich and Lewis B. Woolner, 915
- Turkbas, Nejat; Swaim, William R.; Doscherholmen, Alfred and Silvis, Stephen E.: Thrombocytosis—A Clinical Evaluation of 322 Patients, 1603
- Turpeinen, Osmo; Miettinen, Matti; Karvonen, M. J.; Roine, Paavo; Pekkarinen, Maija; Lehtosuo, E. J. and Alivirta, P.: Blood Lipids and Primary Coronary Events—The Effect of Diet Modification, 1247
- Tussive Syncope. Judah L. Skolnick and David E. Dines, 1609

### TUMOR CONFERENCE

- Buckley, Richard; Conrad, Fred G. and Myers, Paul: Glioblastoma Multiforme, 491
- Burgener, F. and Fuchs, W. A.: Diagnosis and Treatment of Malignant Testicular Tumors, 105
- Campaigne, R. J.: Mesenteric Cysts, 301
- Conrad, Fred G.; Buckley, Richard and Myers, Paul: Glioblastoma Multiforme, 491
- Diagnosis and Treatment of Malignant Testicular Tumors. W. A. Fuchs and F. Burgener, 105
- Field, Charles A.: Hamartoma of the Liver in a Pregnant Woman, 639
- Fuchs, W. A. and Burgener, F.: Diagnosis and Treatment of Malignant Testicular Tumors, 105

(Continued)

## MINNESOTA MEDICINE

### Tumor Conference (Continued)

- Glioblastoma Multiforme. Fred G. Conrad, Paul Myers and Richard Buckley, 491  
Hamartoma of the Liver in a Pregnant Woman. Charles A. Field, 639  
Mesenteric Cysts. R. J. Campaigne, 301  
Myers, Paul; Buckley, Richard and Conrad, Fred G.: Glioblastoma Multiforme, 491

### V

- Vaginal Hormonal Cytology. Oscar Litwak and Elizabeth Mussey, 731  
vanHeerden, Jonathan A. and Priestley, James T.: An Unusual "Complication" of A Duodenal Diverticulum—Report of A Case, 583  
Vascular Compression of the Distal Duodenum—Clinical Symptoms. S. K. Imes, 1055  
Veterans Multiclinic Trial of Drug Treatment in Hypertension. Mark L. Armstrong, Russell B. Tewksbury, Lawrence W. Shaw and Edward D. Freis, 1297  
Vincent, Ronald G.: Smoking—Reducing the Dangers, 1314  
Vorburger, C. and Reubi, F.: Renal Clearances—Comparative Studies of Sodium Thiosulfate and  $\text{Na}_2\text{Cr}(\text{Cr}^{\text{VI}})$  Ethylenediaminetetracetate ( $\text{Cr}^{\text{VI}}$ -EDTA) in Man, 37

### VIEWING BOX

- A Moveable Abdominal Mass. Robert D. Bugby, 623  
Atelectasis of Lung following Automobile Accident. Luther O. Wigdahl, 1105  
Behling, Helmut: Skin Rash and Abnormal Chest Roentgenogram, 1773  
Blank, William A.: Shoulder Pain, 101  
Bugby, Robert D.: A Moveable Abdominal Mass, 623  
Dyspnea in a Teen-age Girl. William A. Wilcox, 771  
Hallermann, Franz J. and Rulfs, David M., Jr.: Mass Behind the Heart, 281  
Ketcham, Douglas B.: Severe Generalized Abdominal Pain, 943  
Lundquist, Charles B.: Renal Mass, 1933  
Mass Behind the Heart. David M. Rulfs, Jr. and Franz J. Hallermann, 281  
Misa, Rafael S.: Weakness and Backache, 1643  
Nephrocalcinosis. Richard A. Rosen, 469  
Renal Mass. Charles B. Lundquist, 1933  
Rosen, Richard A.: Nephrocalcinosis, 469  
Rulfs, David M., Jr. and Hallermann, Franz J.: Mass Behind the Heart, 281  
Severe Generalized Abdominal Pain. Douglas B. Ketcham, 943  
Shoulder Pain. William A. Blank, 101  
Skin Rash and Abnormal Chest Roentgenogram. Helmut Behling, 1773  
Weakness and Backache. Rafael S. Misa, 1643  
Wigdahl, Luther O.: Atelectasis of Lung following Automobile Accident, 1105  
Wilcox, William A.: Dyspnea in a Teen-age Girl, 771

### W

- Wagner, H. P. and Cottier, H.: In-Vivo Studies of Cellular Proliferation—The Use of Mitotic Figures, 63  
Waring, William W. and Harris, Judith A.: Chronic Lung Disease—Clinical Evaluation of the Child, 1435

- Waring, William W.: Subclinical Pulmonary Disease in Children—An Exercise in "Subclinical" Logic, 1562  
Warwick, Warren J.: How Cystic Fibrosis Can Be Confused with Chronic Bronchitis and Bronchial Asthma, 1476  
Warwick, Warren J. and Pogue, Richard E.: Cystic Fibrosis—A New Challenge to Internal Medicine, 1551  
Warwick, Warren J.: Respiratory Complications of Cystic Fibrosis—Prevention, 1567  
Wegleitner, Mark J.; Connolly, Joseph P. and Malerich, J. A., Jr.: General Practice, 365  
Weisberg, Martin G.: Induction of Labor by Intramniotic Injection of Hypertonic Solutions, 773  
Welcome, John L. Juergens, 1183  
White, Paul Dudley: Cardiology—The Challenge of Prevention, 1187  
Wilber, Joseph A. and Barrow, J. Gordon: Reducing Elevated Blood Pressure—Experience Found in a Community, 1303  
Williams, Tiffany J. and Starkey, Thomas A.: Plastic Operations on the Fallopian Tubes, 903  
Wolfson, Justin: X-Ray Diagnosis in the Child, 1449  
Woolner, Lewis B.; Jamra, Fawzi N. Abu and Erich, John B.: Tumors of the Upper Lip—Benign and Malignant, 915

### WHAT'S YOUR DIAGNOSIS

- Baltaxe, Harold A.: Chronic Passive Congestion (April) 582  
Bronchiectasis (February) 218  
Chronic Passive Congestion, Harold A. Baltaxe (April) 582

### X

- X-Ray Diagnosis in the Child. Justin Wolfson, 1449

### YOU MAY BE RIGHT

- Abortion or Compulsory Pregnancy? Robert B. Benjamin, 455  
Acute Abdominal Emergency. Raymond C. Read, 931  
Adams, R. I., 1923  
Alter, Milton: Education in Minnesota, 1763  
Benjamin, Robert B.: Abortion or Compulsory Pregnancy? 455  
Berman, David A.: Leg Cramps, 931  
Buckley, R. P., 1765  
Canned Consultation. George B. Martin, 1922  
Leg Cramps. David A. Berman, 931  
Martin, George B.: Canned Consultation, 1922  
Northland Regional Medical Program. J. M. Stickney, 1089  
Read, Raymond C.: Acute Abdominal Emergency, 931  
Reece, Richard L.: 1922  
Stickney, J. M.: Northlands Regional Medical Program, 1089  
Streitz, J. M.: Infarct of the Prostate Causing Pyohydronephrosis, 1765  
Thurn, R. J.: Treatment of Leg Cramps of Pregnancy with Vitamin B6, 267  
Treatment of Leg Cramps of Pregnancy with Vitamin B6. R. J. Thurn, 267

### Z

- Zierott, G.; Lundsgaard-Hansen, P.; Meyer, C. and Riedwyl, H.: Cardiac Metabolism in Experimental Hemorrhagic Shock, 23



